



ACTIVITY REPORT

2024



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About ERRA

The **Energy Regulators Regional Association (ERRA)** is a non-profit, inter-institutional organization that unites regulatory bodies across 5 continents. ERRA's mission is focused on bringing together competent and autonomous energy regulators to share experience, learn from each other and draw lessons that can help them to improve regulation to drive efficiency and benefit of consumers in the evolving energy sector landscape.

ERRA actively coordinates and facilitates technical discussions, research and networking through standing committees, technical workshops and conferences. Recognizing the importance of adapting to a rapidly evolving industry, ERRA additionally prioritizes education and awareness by facilitating educational trainings and tailor-made capacity-building projects. By promoting research and benchmarking by globally recognized energy experts as well as best practices by other regulators, ERRA aims to assist its members in identifying possible improvements in legislative and regulatory frameworks including markets structure, customer protection rules and network regulation.

ERRA was established on December 11, 2000, during its founding General Assembly in Bucharest, Romania and **to-date lists 47 regulatory organizations from 43 countries.**

Support strengthening and improving the regulatory framework.



Being a reference point for practice and knowledge in the constantly evolving regulatory environment.

ERRA Members

47

REGULATORS

43

COUNTRIES

5

CONTINENTS

-  **Albanian** Energy Regulatory Authority
-  Public Services Regulatory Commission, **Armenia**
-  Energie-Control, **Austria**
-  Tariff (Price) Council, **Azerbaijan**
-  State Electricity Regulatory Commission, **Bosnia and Herzegovina**
-  Energy and Water Regulatory Commission, **Bulgaria**
-  Electricity Sector Regulatory Agency, **Cameroon**
-  **Croatian** Energy Regulatory Agency
-  Energy Regulatory Office, **Czech Republic**
-  **Estonian** Competition Authority
-  **Georgian** National Energy and Water Supply Regulatory Commission
-  Regulatory Authority for Energy, Waste and Water, **Greece**
-  **Hungarian** Energy and Public Utility Regulatory Authority
-  Committee on Regulation of Natural Monopolies of the Ministry of National Economy of **Kazakhstan**
-  Department of the Fuel and Energy Complex Regulation under the Ministry of Energy of the **Kyrgyz Republic**
-  Public Utilities Commission, **Latvia**
-  National Energy Regulatory Council, **Lithuania**
-  National Agency for Energy Regulation, **Moldova**
-  Energy Regulatory Commission, **Mongolia**
-  Energy Regulatory Authority, **Mozambique**
-  Nigerian Electricity Regulatory Commission, **Nigeria**
-  Energy, Water Services and Municipal Waste Management Services Regulatory Commission, **North Macedonia**
-  Authority for Public Services Regulation, **Oman**
-  National Electric Power Regulatory Authority, **Pakistan**

FULL MEMBERS

ERRA Members



Energy Regulatory Office, **Poland**
Romanian Energy Regulatory Authority
 Federal Antimonopoly Service, **Russian Federation**

(with limited membership rights as of March 2022)



Saudi Electricity Regulatory Authority, **Saudi Arabia**



Energy Agency of **Serbia**



Regulatory Office for Network Industries, **Slovakia**



Energy Regulatory Commission, **Thailand**



Energy Market Regulatory Authority, **Türkiye**



National Energy and Utilities Regulatory Commission, **Ukraine**



Regulatory and Supervisory Bureau for Electricity and Water of Dubai, **United Arab Emirates**



Electricity and Gas Regulatory Commission, **Algeria**



Azerbaijan Energy Regulatory Agency



Regulatory Commission for Energy in Federation of **Bosnia and Herzegovina**



Regulatory Commission for Energy of Republic of Srpska, **Bosnia and Herzegovina**



Gas Regulatory Authority, **Egypt**



Energy Regulators Association of East Africa (**EREA**)



ECOWAS Regional Electricity Regulatory Authority (**ERERA**)



Energy Regulatory Commission, **France**



Energy Regulatory Office, **Kosovo***

(*This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.)



Peru's Regulatory Agency for Investment in Energy and Mining



Abu Dhabi Department of Energy, **United Arab Emirates**



National Association of Regulatory Utility Commissioners, **United States of America**



FULL MEMBERS

ASSOCIATE MEMBERS

Governance

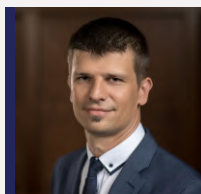
ERRA's decision making body is its General Assembly. The **ERRA Presidium** acts upon the General Assembly's behalf respecting Association operations and planning during the period between Assembly Meetings. The Presidium is the representative and executive body of the Association. It is subordinated directly to the Assembly.

ERRA CHAIR



**Andrijana
Nelkova-Chuchuk**
ERC North Macedonia

ERRA VICE-CHAIR



**Pál
Ságvári**
MEKH Hungary

ERRA PRESIDUM MEMBERS



**Sajid
Akram**
NEPRA Pakistan



**Ahmet Çağrı
Çiçek**
EMRA Türkiye



**Alda
Ozola**
PUC Latvia



**Dietmar
Preinstorfer**
E-Control Austria

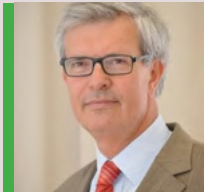


**Sudharma
Yoonaidharma**
ERC Thailand

Governance

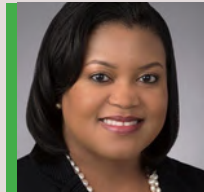
The **Strategic Advisory Board** gives non-binding advice to the ERRA Presidium on strategic issues of the Association with special emphasis on performance, sustainability, new business ideas and organisational efficiency. The Board is mandated to enhance international relations and is in the position to promote ERRA on international fora. The Board consists of five members invited by the Presidium and shall serve for a 2-year period.

CHAIR OF THE BOARD



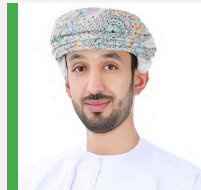
**Walter
Boltz**
Austria

VICE-CHAIR OF THE BOARD



**Colette
Honorable**
USA

STRATEGIC BOARD MEMBERS



**Abdulwahhab
Al Hinai**
Oman



**Ashok
Bhargava**
Australia



**Mariusz
Swora**
Poland

2024 in Numbers



47 members

- 43 countries
- 5 continents



21st ERRA Annual Conference

- hosted by ERC Thailand
- 150+ participants from 46 countries
- 4 sessions, 15 topics, 9 Q&As and panels



15 trainings

Overall rating of ERRA courses

4.6



- 10 standard & 5 tailor-made
- 9 physical & 6 hybrid trainings
- 370+ participants from 48 countries
- 6 CER diplomas handed out of 56
- 6120+ person hours during 30 days of trainings



23
internal
meetings*

- 555+ participants
- 12 physical & 11 online meetings
- 8 locations



Women in the energy sector

- 2 women in the ERRA Presidium
- 54% women representation in 35 ERRA member organisations
- 7 Chairwomen leading ERRA member organisations



Nuclear Energy Forum

- hosted by URE PL
- 105+ participants from 19 countries

* General Assembly, Chairman Session, Meetings of the ERRA Committees, ERRA Liaison Meeting, Communication Workshop

Standing Committees

ERRA's core technical work relies on standing committees as the key knowledge and best-practice sharing platforms for member regulators. In May 2024, ERRA's committees underwent a slight restructuring. The changes, along with the newly defined scope for each committee, are outlined below.

Electricity Markets and Economic Regulation Committee (EMER COM)



The Committee operates without changes to its structure.

Scope for 2024-26: Retail Competition | Parametric and Non-Parametric Methods in Assessing Efficiency of Regulated Infrastructure, Econometric Models and Methodologies | Price Instruments in Incentivizing End-User Flexibility and Enhancing Demand-Side Management | Digitalization: Smart Grids and Smart Meters and their impact on Price Regulation | Decentralization: Distributed Generation; Prosumers | Tariff Database Inputs



Hassan Taqi
Chair
APSR Oman



Lia Gvazava
Vice-Chair
GNERC Georgia

Energy Transition Committee (ET COM)

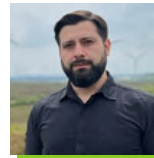


A new Committee being a result of a merger of the Renewable Energy Committee and the Energy Transition Task Force.

Scope for 2024-26: Enhancing Power System Flexibility Options | Electrification & E-mobility | RES Support Schemes | Non-Prices Support Mechanisms for RES | Energy Efficiency | Facilitation of New Technologies | Energy Transition | Decentralization | Hydrogen | Renewable Gases



Jelena Diliene
Chair
NERC Lithuania



Tornike Apriashvili
Vice-Chair
GNERC Georgia

Standing Committees



Gaseous Fuels Markets and Economic Regulation Committee (GF COM)

Replacing the Natural Gas and Economic Regulation Committee and expanding the scope to include hydrogen and renewable gases.

Scope for 2024-26: Economic Regulation of Transmission & Distribution Networks | Security, Quality and Reliability of Supply; Infrastructure Development and Investment Incentives; Smart Systems | Retail Competition | Cross-Border Trade and Regional Market Integration Aspects | LNG and CNG: Policies, Regulatory Models and Approaches | Licensing Procedure of Market Activities, the Regulatory Approaches to Applications for Licenses | Organized Wholesale Markets and Derivatives



Viesturs Kadiķis

Chair
PUC Latvia



Dalibor Mitrovski

Vice-Chair
ERC North Macedonia



Customer Protection Committee (CP COM)

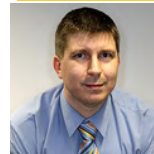
Replacing the Customer Protection Working Group and being formally recognized as one of the ERRA Standing Committees with full Secretariat's support.

Scope for 2024-26: Consumer Protection with focus on Consumer Groups | Structures of the Retail Market and Their Evolution, Roles of the Market Participants | Roles and Obligations of Service Providers Towards Consumers | Consumer Empowerment | Role and Jurisdiction of the Regulators, and the Legal Framework in Case of Normal Situation and in Emergency



Margus Kasepalu

Chair
ECA Estonia

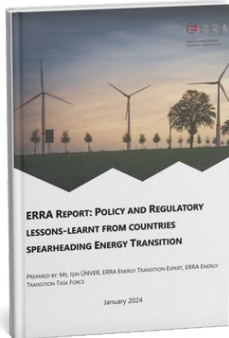


Viktor Szilágy

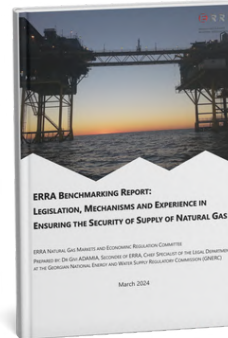
Vice-Chair
MEKH Hungary

Publications

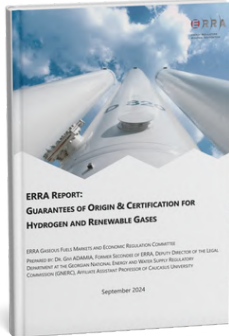
ERRA conducts research and benchmarking exercises both as a result of the technical work of its Committees as well as ad hoc with partner organizations. ERRA Committees issued in 2024 four key reports.



Policy and Regulatory Lessons-learnt from Countries Spearheading Energy Transition



Legislation, Mechanisms and Experience in Ensuring the Security of Supply of Natural Gas



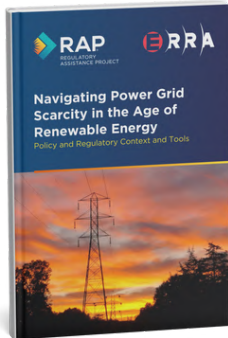
Guarantees of Origin & Certification for Hydrogen and Renewable Gases



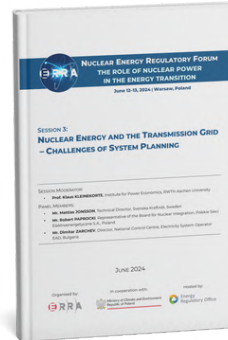
Investment Regulation Evaluation, Approval and Risk Mitigation Approaches for Large Investment Projects, Obstacles to Investments

Publications

The key publication of 2024 developed with an external partner was related to the Grid Scarcity topic. The remaining publications of 2024 were as follows.



ERRA-RAP Study: Navigating Power Grid Scarcity in the Age of Renewable Energy – Policy and Regulatory Context and Tools



Nuclear Energy and the Transmission Grid – Challenges of System Planning



ERRA Newsletters

- with Featured Interview
- and updates from Member Regulators



Regulatory Stories of the Quarter

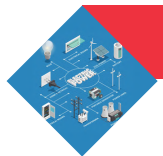
- The Hungarian Battery Storage Tender
- Kosovo's First Solar Auction
- RAAEY Greece Digital Tools to Educate and Empower Customers

Access all resources at the ERRA e-library which comprises technical issue papers, benchmarking reports, sector analyses and podcasts produced by ERRA and other leading organizations from the sector.



In-House Training Courses

ERRA's in-house regulatory training portfolio includes more than 15 different courses on all levels of energy sector proficiency – from intro to highly-specialized. The 2024 in-house trainings that we implemented are presented below.



Power System Basics for Non-Engineers

The course provided a compact and easily understandable information package on how the electricity system works. This course is a compact learning exercise for those who would like to understand what constitutes an electric power system, what are its participants and how does it impact regulation.



Natural Gas System Basics for Non-Engineers

ERRA extended its 2-day Power Sector Basics for Non-Engineers Training Course with content on natural gas. Participants went through the relevant topics from production to distribution, key engineering concepts, and standards of measurement.



Principles of Economic Regulation and Electricity Tariffs

The course explained the principles of economic regulation and applied regulatory models: the building-block approach to revenue-setting and revenue determinants as well as cost-allocation principles, tariff structure and tariff design.



Natural Gas Market Regulation

In this course we analysed the natural gas supply chain to explain wholesale and supply principles, gas tariff basics for pipeline and storage, network regulation and access models, market surveillance as well as some aspects of biomethane and hydrogen as trending topics.

In-House Training Courses

Our methodologies and the expert base allows us to approach training programs with the highest degree of diligence and professionalism.



22nd ERRA Summer School: Introduction to Energy Regulation

The flagship ERRA training offered junior energy professionals a gateway to energy regulation with a possibility to learn about various regulatory models, market structures, price and tariff regulation and recent technology drivers transforming the sector.



Capital Expenditure (CAPEX) Review and Assessment Tools

This advanced hybrid ERRA training was a step-by-step practical overview of measures regulators can employ to review and assess the reasonableness of capital expenditure projects proposed by regulated licensees with insights into effectiveness metrics and tools.



Regulation of Renewable Energy Sources

The course introduced the participants to renewable energy economics and policies across Europe, the US and Australia, offering them an in-depth knowledge of key trending issues, such as Power Purchase Agreements (PPAs), Guarantees of Origin (GO) and Power Sector Flexibility.



Regulation of Quality of Supply

ERRA's new training course explored the principles underlying regulation of electricity quality of supply including the dimensions of quality of supply, regulatory fundamentals and methods. Theory was extended with country case studies from Italy and Finland.

In-House Training Courses

ERRA has been actively providing regulatory training for more than 22 years and has been enjoying one of the leading roles in energy regulatory education.

Fundamentals of Water Utility Regulation

The course focused on the core responsibilities and activities of water utility regulatory authorities. Participants learnt about key economic concepts that guide the sector's operations, the challenges faced by sector participants, and the role of the regulator and various regulatory models.

Executive Seminar: Principles of Energy Regulation and the Energy Transition

The program was tailored to provide an exclusive capacity-building and discussion platform for senior level regulators and utility executives on regulatory policy objectives in light of supply security, economic drivers as well as environmental sustainability.



22

years of experience
in capacity building



4480

ERRA Alumni benefited
from our courses



250

instructors are internationally
renowned experts of the industry



3450

training hours
and still counting



ERRA Certified Energy Regulator (CER)
Certification System

56 CER diploms were issued since 2010



Student Testimonials



Thank you very much for the engaging and insightful course! The trainers were really competent and helpful. The course content was informative and practical. I very much enjoyed the dynamic sessions with examples and visuals. All the best to the whole team.
(Belgium)

Power System Basics for Non-Engineers
January 29-30 | Budapest, Hungary & Online



Special thanks for organizing and arranging this wonderful Summer School. The course perfectly covered the market research and practice at the edge. It was a great opportunity to meet professionals in the field and having insightful conversations. Many thanks for the presenters and diving into the emerging challenges on energy regulation. Finally, I appreciate the social activity and every endeavour to make Budapest a memorable stay. (Norway)

Summer School: Introduction to Energy Regulation
July 1-5 | Budapest, Hungary & Online



This was my first ERRA course, and it was an excellent experience. The training on Capital Expenditure (CAPEX) Review and Assessment Tools provided invaluable insights into key regulatory and investment appraisal methods. The training was well-structured, informative, and provided valuable insights into regulatory practices. The knowledgeable instructors and the practical relevance of the content are specially appreciated, recommend this training to others in the regulatory field! (Brazil)

CAPEX Review and Assessment Tools
September 17-18 | Budapest, Hungary & Online



The course has offered valuable tools and strategies that will be instrumental in addressing the challenges of renewable energy integration. I appreciate the opportunity to learn from the experts and engage with peers from all over the World.
(Azerbaijan)

Regulation of Renewable Energy Sources
September 30 - October 2 | Prague, Czech Republic

Tailor-Made Training Programs

ERRA offers tailor-made capacity building programs in all formats, including live on-premise courses and tutoring that are designed according to specific needs, market and jurisdiction contexts. The tailor-made courses are offered to all interested energy and water sector entities. A snapshot of ERRA tailored educational solutions in 2024 is shown below.



Electricity Sector Reform

for ERC Thailand
Oxford, UK

Introduction to Energy Regulation Power System Basics for Non-Engineers

for SERA Saudi Arabia
Riyadh, Saudi Arabia



Regulation of RES

for APSR Oman
Muscat, Oman



Energy Transition

for ERC Thailand
Bangkok, Thailand

The programs are:

- ◆ tailored to the relevant policy/ regulatory/ market context
- ◆ designed from scratch according to the requirements of the benefiting institution
- ◆ delivered as quickly as in 3 months on a commercial basis

To request a tailor-made training course for your organisation, please contact the ERRA Secretariat.

Social Media

ERRA
@ErraNews

Follow ...

📍 The ERRA-RAP Study on Navigating **#Power #GridScarcity** in the Age of **#RenewableEnergy** was presented by ERRA Vice-Chair Mr. Pal Sagvari at the Electricity Grid Development Conference organized yesterday by @HU24EU in Budapest 🇭🇺

➡ Access the full Study at:
erranet.org/2024-grid-pape...



Energy Regulators Regional Associati...
5,664 followers
5mo • Edited •

Exciting news from Athens 🇬🇷! 🌐 This morning ERRA, hosted by **Regulatory Authority for Energy, Waste and Water of Greece** and supported by **WAREG - European Water Regulators**, kicked off the training on Fundamentals of Water Utility Regulation. With over 30 participants diving into the core responsibilities of water utility regulatory authorities, we are exploring essential economic and technical concepts that shape the sector. 📈



Energy Regulators Regional
Association (ERRA)
12 Jun 2024 ·

🌐 Recognizing the return of **#nuclearpower** to the energy sector mainstream, ERRA holds today its Nuclear Energy Regulatory Forum in Warsaw, hosted by Urząd Regulacji Energetyki (URE) and developed in cooperation with Ministerstwo Klimatu i Środowiska. The Forum was opened by sirs Maciej Bando, Rafał Gawin & Pal Sagvari, followed by a keynote presentation on the role of nuclear power in achieving **#NetZero** by Keisuke Sadamori from **International Energy Agency (IEA)**.



Follow us on social media for updates on events, publications and news.

21st ERRA Annual Conference



The ERRA 21st Annual Conference took place on 15-17 May, 2024 at the Queen Sirikit National Convention Centre in Bangkok, Thailand under the theme: Adaptive Regulation in Energy Transition. The event was hosted by the Energy Regulatory Commission (ERC) of Thailand and was branded as the Energy Regulators' Forum falling under the Future Energy Asia Expo.

For the first time in the history of ERRA, the Conference convened in Southeast Asia – a new region where ERRA was represented by a single member – ERC of Thailand. Setting a footprint in this location was of particular importance to ERRA and its regulators as the region is an important hub for many industries and offers a vast potential for interconnection and decarbonization – both being important elements of ERRA technical agendas.

While organizing the 21st Annual Conference, ERRA also provided technical support in developing the parallel summit of ASEAN regulators, constituting a breakout session of the Conference and being organized by the ERC.



21st ERRA Annual Conference

The Conference program was structured around four sessions, through 3 days of presentations:

- 01 **Safeguarding Energy Transition Goals**
- 02 **Impact of Clean Energy Sources on the Grids and System Stability**
- 03 **Mobilising Green Finance**
- 04 **Facilitating Innovative Technologies for Energy Transition**

Over the 3 days of the technical program, the Conference convened 150+ participants from across all ERRA regions. The event allowed for establishing new valuable connections with local and regional regulators, discuss key elements of the energy transition discourse and dynamics that impact regulations worldwide as well as broaden the perspectives of ERRA regulators towards energy sector developments in the ASEAN region.

For more details, including roster of speakers, conference daily report, please visit the Conference website.



Strategic Plan 2025-2030

The third ERRA Strategic Plan guides the organization's work plans and activities for the implementation period, reflecting on a review of the status of the organization, identifying challenges affecting the regulatory landscape and listing strategic objectives and measures to be undertaken to ensure that the organization fulfils its mission and vision and continues to add value to its members.

The Strategy Document includes and focuses on the following elements:





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